PATENT *IFW*

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/827,099  
Confirmation No.: 1460  
Filed: April 19, 2004  
Inventor(s):  
Stephen J. Dodd

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§ Examiner: Unknown  
§ Art Unit: 2858  
§ Atty. Dkt. No: 5660-01901/EBM  
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Title: MAGNETIC COIL DESIGN  
USING OPTIMIZATION OF  
SINUSOIDAL  
COEFFICIENTS

CERTIFICATE OF MAILING  
UNDER 37 C.F.R. §1.8DATE OF DEPOSIT: May 12, 2005

I hereby certify that this correspondence is being deposited with  
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Alexandria, VA 22313-1450

  
Jackie L. PitreINFORMATION DISCLOSURE STATEMENT**MS AMENDMENT**

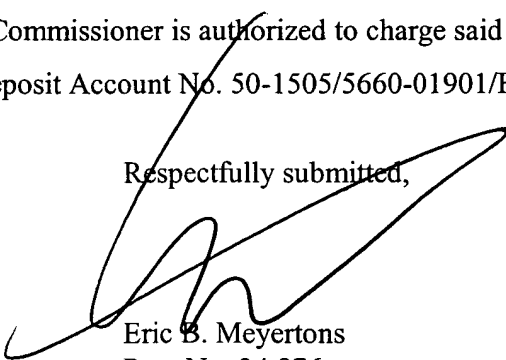
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Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of references B1-B16 are enclosed for the convenience of the Examiner.

Should any fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5660-01901/EBM.

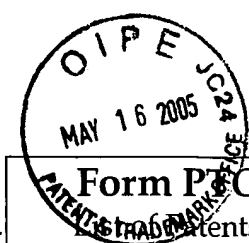
Respectfully submitted,

  
Eric B. Meyertons  
Reg. No. 34,876

Attorney for Applicant(s)

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.  
P.O. BOX 398  
AUSTIN, TEXAS 78767-0398  
(512) 853-8800 (voice) (512) 853-8801 (facsimile)

Date: May 12, 2005



<b>Form PTO-1449</b> (modified) U.S. Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO. 5660-01901  APPLICANT: Stephen J. Dodd  FILING DATE: April 19, 2004	SERIAL NO. 10/827,099  GROUP: 2858
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### U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
		4,646,024	02/24/1987	Schenck et al.			
		5,266,913	11/30/1993	Chapman			
		5,309,107	05/03/1994	Pausch			
		5,334,937	08/02/1994	Peck et al.			
		6,118,274	09/12/2000	Roffman et al.			
		6,351,123	02/26/2002	Gebhardt			

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO N YES/NO

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	B1	Turner, "Gradient coil design: a review of methods", Magnetic Resonance Imaging, Vol. 11, pgs. 903-920 1993
	B2	Crozier et al., "A simple design methodology for elliptical cross-section, transverse, asymmetric, head gradient coils for MRI", IEEE Trans. Biomedical Engineering, Vol. 45, No. 7, July 1998, pgs. 945-948 (1998).
	B3	Tomasi, "Stream function optimization for gradient coil design", Magnetic Resonance in Medicine, 45, pgs. 505-512, 2001
	B4	Crozier et al., "Gradient coil design by simulated annealing", Journal of Magnetic Resonance, Series A 103, pgs. 354-357, 1993
	B5	Corana et al., "Minimizing Multimodal Functions of Continuous Variables with the 'Simulated Annealing' Algorithm", ACM Transactions on Mathematical Software, Vol. 13, No. 3, pgs. 262-280, September 1987
	B6	Dodd et al., "An open transverse z-gradient coil design for magnetic resonance imaging", Review of Scientific Instruments, Vol. 73, No. 5, pgs. 2208-2210, May 2002
	B7	Dodd et al., "An Open-Coil Design for Functional Imaging of the Primate Brain", Proc. of the 6th ISMRM, Sydney, Australia, April 1998
	B8	Dodd et al., "Open Z-gradient Designs for Magnetic Resonance Imaging", Proc. of the 8th ISMRM, Denver, Colorado, April 2000
	B9	S. Pissanetzky, "Minimum energy MRI gradient coils of general geometry," Meas. Sci. Technolo. 3, pgs. 667-673, July 1992

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)

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Information Disclosure Statement--PTO 1449 (modified)	